

Lead and Lead Compounds

Chemical Information

Lead is a heavy, silver-white metal in its pure (elemental) form. When exposed to air, it reacts with it and turns bluish-gray. Its physical properties include a relatively low melting point (327°C), high density, and an ability to shield radiation, sound waves, and mechanical vibrations. Lead exists in either one of two ways: as the pure metal (i.e., lead metal) or as a compound, in which the lead is combined with some other element or elements. Examples of lead compounds include: lead oxide, lead sulfide, and lead acetate. Lead metal and lead compounds are widely used in a variety of products and applications that include: lead-acid batteries, ammunition, construction materials, solder, metal castings, glass and ceramic products, plastics, electrical cable coverings, lubricating oils and greases, and certain paints

CAS Number - 7439-92-1

General Uses - Lead is often obtained by primary production through mining of ores or by secondary production through recycling. Lead and Lead Compounds are used in the manufacture of a variety of products. The most prominent uses of lead and lead compounds are in storage batteries, pigments and ceramic products, ammunition, sheet lead, casting metal and solder. Various other industries use or make metal products that contain lead and lead compounds. These metal products include sheet lead, casting metals, solder, bearing metals, extruded products, and brass and bronze alloys. (EPA 2000/2001 TRI Public Data Release Report)

Potential Hazards - Lead can affect almost every organ and system in the body. The most sensitive is the central nervous system. At high levels, lead may decrease reaction time, cause weakness in fingers, wrists, ankles, and possibly affect the memory.

Summary Analysis— Lead and Lead Compounds

- The almost 37 million pounds of lead and lead compounds accounted for over 46 percent of the total PC quantity in 2003. For 1999 – 2003, lead and lead compounds comprised, by far, the largest quantity of any of the PCs.
- The lowered TRI reporting threshold for lead and lead compounds that became effective for the 2001 TRI Reporting Year resulted in a quadrupling of the number of reporting facilities; however, the reported PC quantity of lead and lead compounds actually decreased by about 400,000 pounds, compared to the quantity reported in 2000.
- Almost 100 percent of lead and lead compounds was land disposed. This is indicative of the fact that metals, including lead and lead compounds, are not amenable to destruction via treatment and have no energy value. Although the quantity of lead and lead compounds reported as recycled has decreased by almost 26 percent since 1999, approximately 614 million pounds were recycled in 2003.
- Of the 4,609 facilities that reported lead and lead compounds in 2003, 5 facilities accounted for almost 30 percent of the total quantity of this chemical. Seventy-one facilities accounted for over 75 percent of the total quantity.
- In 2003, about 75 percent of lead and lead compounds was reported by facilities in 4 EPA Regions (Regions 4, 5, 6, and 7). Facilities in Region 5 accounted for over 24 percent of the total quantity in 2003.
- Facilities in 16 states reported over 80 percent of the total quantity in 2003. Facilities in Missouri reported the largest PC quantity of lead and lead compounds in 2003, accounting for over 13 percent of the total quantity. These facilities also had the largest

increase in quantity, almost 3.6 million pounds, compared to the 1999 quantity. Most of this quantity was reported by 1 facility, in Missouri.

- Facilities in more than 300 SIC codes reported a PC quantity of lead and lead compounds in 2003. Facilities in 6 industry sectors accounted for almost 80 percent of the total quantity

National Trends – Lead and Lead Compounds. The almost 37 million pounds of lead and lead compounds accounted for over 46 percent of the total PC quantity in 2003. For 1999 – 2003, lead and lead compounds comprised, by far, the largest quantity of any of the PCs. Exhibit 4.122 shows that the number of facilities that reported lead and lead compounds since 2001 has been relatively constant, with 4,609 facilities reporting in 2003. In 2001, there was a significant increase in the number of facilities reporting lead and lead compounds. Most of this increase likely can be attributed to the lowered TRI reporting threshold for lead and lead compounds that became effective for the 2001 TRI Reporting Year. Although the number of reporting facilities more than quadrupled, the reported PC quantity of lead and lead compounds actually decreased by about 400,000 pounds. As such, quantities of lead and lead compounds newly reported by the facilities due to the lowered TRI reporting threshold were more than offset by decreased quantities reported by the other reporting facilities.

Almost 100 percent of lead and lead compounds was land disposed. This is indicative of the fact that metals, including lead and lead compounds, are not amenable to destruction via treatment and have no energy value. Although treatment and energy recovery quantities were reported for lead and lead compounds since 1999, these quantities are steadily decreasing – likely due to improved data quality assurance by the TRI Program and increased awareness by reporters that land disposal is the most suitable method to be reported for this chemical. Although recycling of lead and lead compounds has decreased by almost 26 percent since 1999, approximately 614 million pounds were recycled in 2003.

Exhibit 4. 122. National-Level Information for Lead and Lead Compounds (1999-2003)

	1999	2000	2001	2002	2003	Percent Change (2001-2003)	Management Method -- Percent of Quantity of this Chemical in 2003
Number of Facilities	1,010	1,076	4,825	4,731	4,609	-4.5%	
Disposal Quantity (lbs.)	29,591,284	31,785,023	34,572,297	34,827,486	36,638,200	6.0%	99.9%
Energy Recovery Quantity (lbs.)	18,492	11,010	110,629	5,984	265	-99.8%	0.0%
Treatment Quantity (lbs.)	3,244,600	5,624,555	2,313,654	73,792	28,811	-98.8%	0.1%
Priority Chemical Quantity (lbs.)	32,854,376	37,420,838	36,996,580	34,907,262	36,667,276	-0.9%	
Recycling Quantity (lbs.)	826,400,495	769,496,187	661,304,132	670,990,967	614,018,470	-7.2%	

Exhibit 4.123 shows the number of facilities that reported lead and lead compounds, within ranges of quantities. Of the 4,609 facilities that reported lead and lead compounds in 2003, 5 facilities accounted for almost 30 percent of the total quantity of this chemical. Seventy-one facilities accounted for over 75 percent of the total quantity. Over 3,700 facilities accounted for

less than 1.2 percent of the total PC quantity of lead and lead compounds in 2003 lead and lead compounds in 2003.

Exhibit 4.123. Distribution of Facilities that Reported Quantities for Lead and Lead Compounds (2003)

Lead and Lead Compounds (36,655,132 pounds)		
Quantity Reported	Number of Facilities Reporting this quantity (2003)	Percent of Total Quantity for this Priority Chemical
up to 10 pounds	1,590	less than 0.1%
between 11 - 100 pounds	1,045	0.1%
between 101 -1,000 pounds	1,101	1.1%
between 1,001 - 10,000 pounds	593	5.4%
between 10,001 - 100,000 pounds	209	18.3%
between 100,001 - 1 million pounds	66	45.2%
> 1 million pounds	5	29.9%

EPA Region Trends– Lead and Lead Compounds. Exhibit 4.124 shows the quantity (pounds) of lead and lead compounds reported by facilities in each EPA Region from 1999 to 2003. In 2003, facilities in 4 EPA Regions (Regions 4, 5, 6, and 7) reported about 75 percent of lead and lead compounds. Facilities in Region 5 accounted for over 24 percent of the total quantity in 2003, an increase of 12 percent since 2001. Facilities in 4 other Regions also reported an increased quantity of lead and lead compounds in 2003, compared to 2001 quantities: Region 10 (+13.2%), Region 8 (+16.0%), Region 4 (+16.9%), and Region 7 (+27.5%). Compared to the quantity reported in 2001 (the year in which the TRI reporting threshold was lowered), facilities in 5 Regions reported a decreased quantity of lead and lead compounds in 2003: Region 1 (-45.2%), Region 2 (-46.4%), Region 3 (-27.8%), Region 6 (-27.0%), and Region 9 (-19.8%).

Exhibit 4. 124 Quantity of Lead and Lead Compounds Reported by EPA Regions (1999-2003)

EPA Region	1999	2000	2001	2002	2003	Percent Change in Quantity (2001-2003)	Percent Of the Total Priority Chemical quantity (2003)
1	441,993	344,856	628,001	299,379	344,165	-45.2%	0.9%
2	3,315,851	3,094,854	1,825,446	1,100,971	977,662	-46.4%	2.7%
3	5,171,766	4,881,290	4,230,599	2,715,513	3,055,739	-27.8%	8.3%
4	5,292,399	5,455,603	6,142,228	7,171,738	7,178,973	16.9%	19.6%
5	9,464,741	8,612,192	7,961,664	9,154,985	8,931,957	12.2%	24.4%
6	3,152,539	4,049,426	5,431,780	4,011,131	3,963,116	-27.0%	10.8%
7	2,760,263	5,889,663	5,742,970	6,212,472	7,321,169	27.5%	20.0%
8	1,046,638	1,357,272	1,208,980	1,048,465	1,402,340	16.0%	3.8%
9	1,170,439	2,629,916	2,534,546	2,332,445	2,031,834	-19.8%	5.5%
10	1,037,747	1,105,766	1,290,365	860,164	1,460,320	13.2%	4.0%
Total	32,854,376	37,420,838	36,996,580	34,907,262	36,667,276	-0.9%	100.0%

Exhibit 4.125. Distribution of Facilities Reporting Lead and Lead Compounds in 2003 & Quantity of Lead and Lead Compounds Reported in 2003 by Region

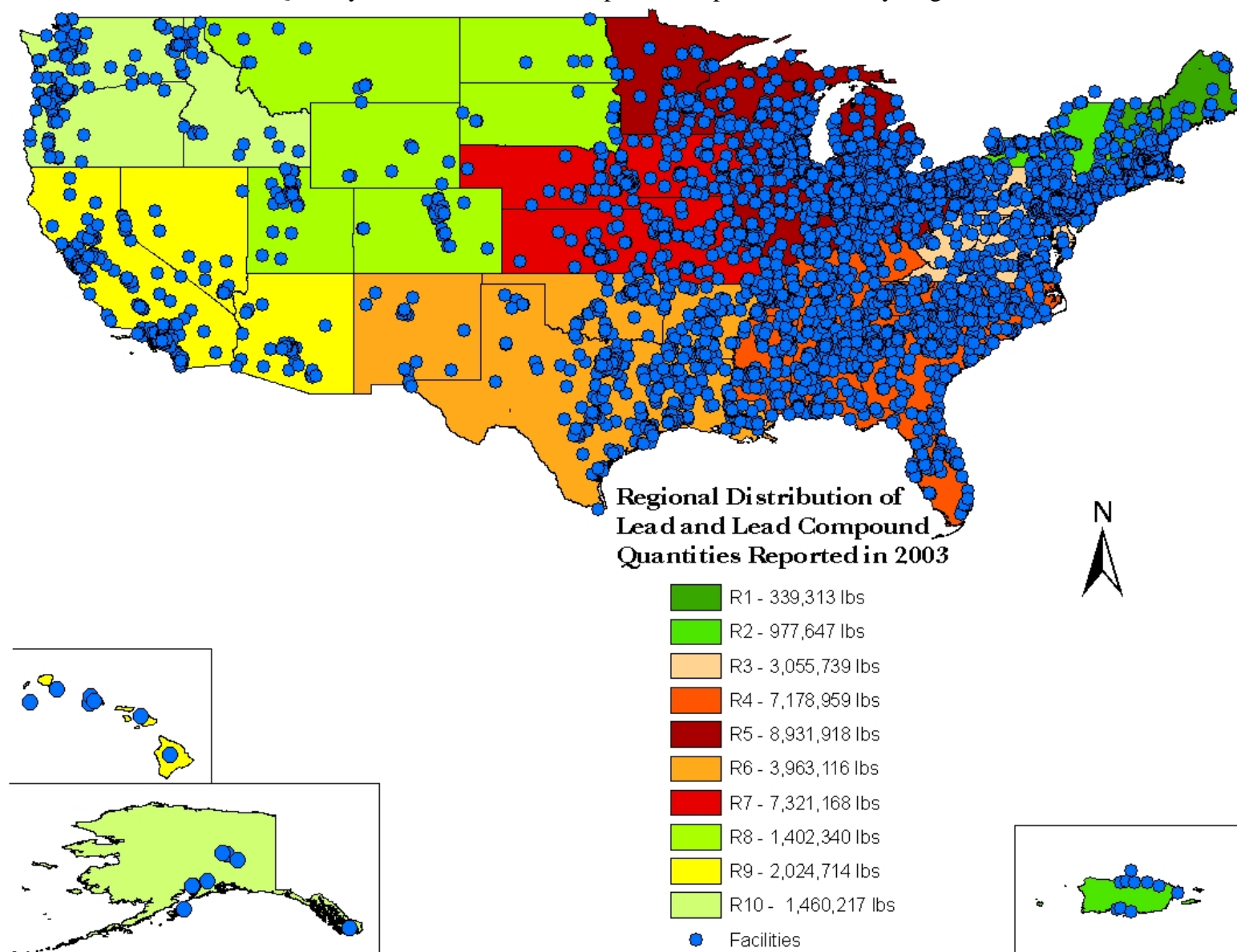


Exhibit 4.126 shows how lead and lead compounds were managed by facilities in 2003. Virtually all of lead and lead compounds were land disposed -- offsite disposal (77 %) and onsite disposal (23%). Minimal quantities were reportedly sent to either energy recovery or treatment. Significant recycling of lead and lead compounds was reported by facilities in every EPA Regions.

Exhibit 4. 126. Management Methods for Lead and Lead Compounds, By EPA Region (2003)

EPA Region	Disposal		Energy Recovery		Treatment		Recycling	
	Onsite Disposal	Offsite Disposal	Onsite Energy Recovery	Offsite Energy Recovery	Onsite Treatment	Offsite Treatment	Onsite Recycling	Offsite Recycling
1	15,310	328,529	0	0	0	326	47,294	1,707,904
2	111,995	855,452	0	250	101	9,865	4,730,590	13,180,233
3	203,003	2,850,996	0	0	1	1,740	34,204,378	11,986,488
4	3,633,723	3,542,747	4	0	5	2,495	48,920,597	64,629,886
5	608,591	8,312,128	0	0	36	11,201	225,728,886	31,957,305
6	1,866,646	2,095,579	0	0	0	891	25,447,302	17,306,054
7	394,726	6,926,443	0	0	0	0	57,814,462	41,277,849
8	398,777	1,003,564	0	0	0	0	54,655	3,344,619
9	493,590	1,536,083	0	11	338	1,813	15,155,285	8,833,398
10	854,104	606,215	0	0	0	0	3,334,780	4,356,506
Total	8,580,464	28,057,736	4	261	481	28,330	415,438,229	198,580,240

State Trends— Lead and Lead Compounds. Facilities in every state and territory reported a PC quantity of lead and lead compounds in 2003. Exhibit 4.127 shows the quantity of lead and lead compounds, in 1999-2003, in 16 states where facilities reported over 80 percent of the total quantity in 2003. Facilities in Missouri reported the largest PC quantity of lead and lead compounds in 2003, accounting for over 13 percent of the total quantity. These facilities also had the largest increase in quantity, almost 3.6 million pounds, compared to the 1999 quantity. Since 1999, Missouri facilities reported a steadily increasing quantity of lead and lead compounds. Most of this quantity was reported by 1 facility, accounting for about 90 percent of the total quantity reported by facilities in Missouri.

In 2003, the PC quantity of lead and lead compounds increased in most of these 16 states. Facilities in several states (Alabama, Texas, and Nebraska) had increases of over 1 million pounds, compared to the 1999 quantities. Facilities in 3 of the states reported a decreased quantity of lead and lead compounds: Pennsylvania (-2.2 million pounds), Illinois (-950,000 pounds), and Ohio (-395,000 pounds).

Exhibit 4. 127. State-Level Information for Lead and Lead Compounds (1999-2003)

State	1999	2000	2001	2002	2003	Change in quantity	Percent Change in Quantity	Percent of Total Quantity of Lead and Lead Compounds (2003)
Missouri	1,317,042	2,467,289	3,634,704	3,910,471	4,868,678	3,551,636	269.7%	13.3%
Indiana	3,146,526	2,578,526	2,543,535	3,681,900	3,725,556	579,030	18.4%	10.2%
Alabama	1,868,831	1,737,728	2,217,376	3,494,741	3,279,184	1,410,353	75.5%	8.9%
Ohio	2,991,029	3,311,866	2,766,641	3,117,170	2,596,198	-394,831	-13.2%	7.1%
Pennsylvania	4,660,650	4,408,688	3,416,879	2,084,733	2,429,454	-2,231,196	-47.9%	6.6%
Texas	884,255	1,165,601	2,737,430	2,201,554	2,187,257	1,303,002	147.4%	6.0%
California	1,126,223	1,417,281	2,294,565	1,957,431	1,624,336	498,113	44.2%	4.4%
Nebraska	374,236	2,411,580	1,240,341	1,283,688	1,403,425	1,029,189	275.0%	3.8%
Utah	733,151	979,331	880,381	924,921	1,181,068	447,917	61.1%	3.2%
Illinois	2,049,508	1,777,918	1,197,217	1,014,491	1,097,036	-952,473	-46.5%	3.0%
South Carolina	744,840	1,262,532	1,128,315	1,049,187	977,908	233,068	31.3%	2.7%
Iowa	905,912	969,010	787,220	919,647	944,255	38,343	4.2%	2.6%
Washington	82,875	170,074	284,212	161,221	806,955	724,080	873.7%	2.2%
North Carolina	131,880	140,491	726,943	648,977	775,133	643,253	487.8%	2.1%
Louisiana	241,109	203,039	518,975	669,652	758,289	517,180	214.5%	2.1%
Kentucky	398,877	236,355	367,512	241,882	692,470	293,593	73.6%	1.9%

Exhibit 4. 128. Trends Analysis on States with Largest Quantity Increase and Decrease (1999 – 2003): Facilities in Washington and Pennsylvania

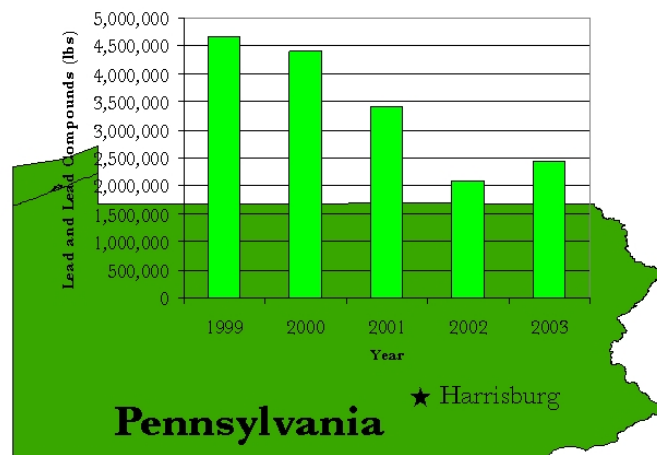
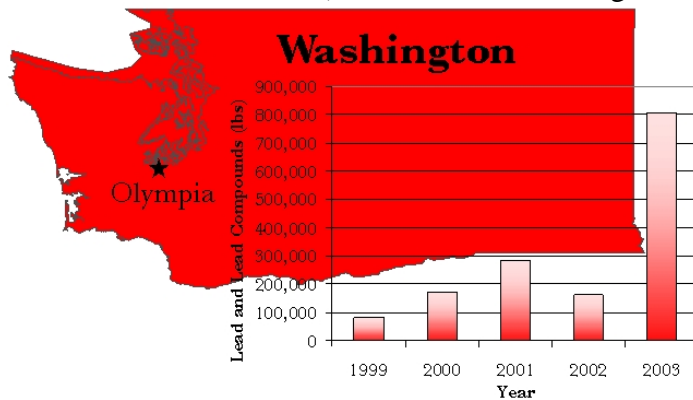
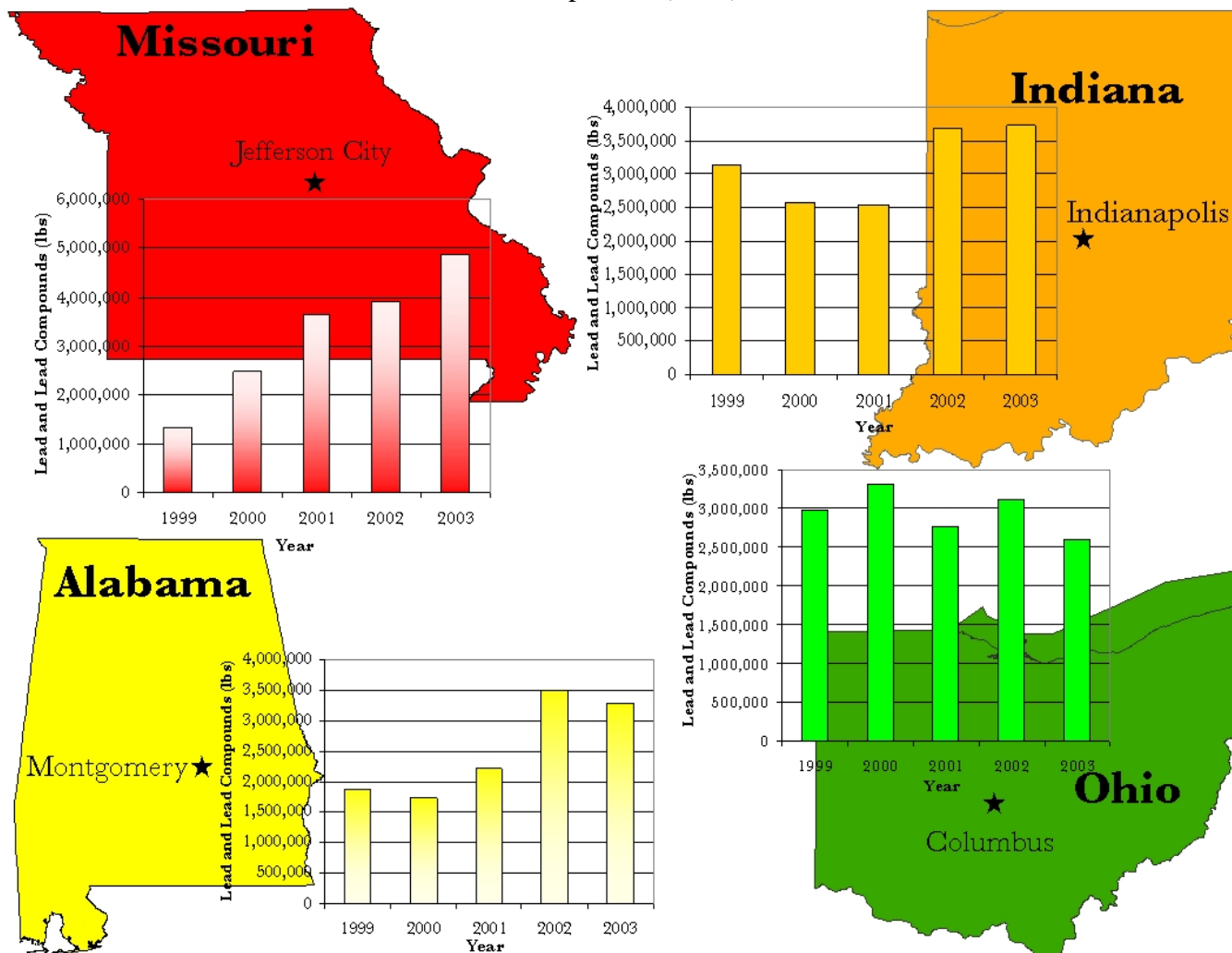


Exhibit 4.129 shows how lead and lead compounds were managed by facilities in the 16 states. Virtually 100 percent of the lead and lead compounds reported by facilities in these states was land disposed, mostly (77%) offsite. In many of the states, the recycling quantities were much greater than quantities that were land disposed.

Exhibit 4. 129. Management of Lead and Lead Compounds in States (2003)

State	Total Priority Chemical Quantity (2003)	Onsite Disposal	Offsite Disposal	Onsite Energy Recovery	Offsite Energy Recovery	Onsite Treatment	Offsite Treatment	Onsite Recycling	Offsite Recycling
Missouri	4,868,678	356,619	4,512,060	0	0	0	0	10,633,572	14,196,183
Indiana	3,725,556	104,190	3,620,280	0	0	0	1,085	10,644,405	6,628,281
Alabama	3,279,184	2,143,935	1,135,249	0	0	0	0	20,805,806	1,280,833
Ohio	2,596,198	337,785	2,258,233	0	0	0	181	38,243,915	10,120,895
Pennsylvania	2,429,454	9,743	2,417,973	0	0	0	1,738	33,655,591	6,343,087
Texas	2,187,257	1,142,966	1,044,050	0	0	0	241	385,347	2,675,238
California	1,624,336	157,228	1,464,958	0	0	338	1,813	14,337,899	8,486,126
Nebraska	1,403,425	3,676	1,399,749	0	0	0	0	23	120,852
Utah	1,181,068	295,221	885,847	0	0	0	0	5,389	132,827
Illinois	1,097,036	51,275	1,035,857	0	0	3	9,900	3,266,720	7,955,611
South Carolina	977,908	162,955	814,954	0	0	0	0	264,454	1,260,521
Iowa	944,255	2,616	941,639	0	0	0	0	12,813,964	13,208,502
Washington	806,955	741,009	65,946	0	0	0	0	5,855	95,847
North Carolina	775,133	296,344	478,784	4	0	0	0	140,199	16,889,438
Louisiana	758,289	542,810	215,479	0	0	0	0	21,538,571	6,970,331
Kentucky	692,470	294,358	398,112	0	0	0	0	4,254,034	4,382,582

Exhibit 4. 130. Trends Analysis of States Reporting 4 Largest Quantities of Lead and Lead Compounds (2003)



Industry Sector (SIC) Trends—Lead and Lead Compounds. Facilities in more than 300 SIC codes reported a PC quantity of lead and lead compounds in 2003. Exhibit 4.131 shows the PC quantity (pounds) of lead and lead compounds reported in the 6 industry sectors (SIC codes) where facilities accounted for almost 80 percent of this chemical in 2003. Facilities in SIC 3341 (Secondary nonferrous metals) reported the highest quantities, accounting for 34 percent of the total PC quantity of lead and lead compounds reported in 2003. Facilities in this industry sector reported an increase of about 5.2 million pounds (+71.8%) compared to the 1999 quantity. Much of this increase is attributed to the quantity of lead and lead compounds reported by 1 facility, located in Missouri.

Beginning in 2001, there was a dramatic increase in the quantity of lead and lead compounds reported by facilities in SIC 9711 (National Security). In 2003, these facilities, primarily military installations, reported an increase of almost 2.6 million pounds of lead and lead compounds, compared to the quantity reported in 1999. Although a portion of this large increase may be due to the lowered TRI reporting threshold that became effective in 2001 for lead and

lead compounds, most of the increased quantity is likely due to the increase in training and other activities at military installations in support of military operations to counter terrorism worldwide, including in Afghanistan and Iraq. Facilities in SIC 3321 (Gray and ductile iron foundries) reported an increase of more than double the quantity reported in 1999, with an initial large increase in 2001.

Facilities in SIC 3312 (Blast Furnaces and steel mills) reported over 20 percent of the total quantity of lead and lead compounds. Since 1999, facilities in this industry sector reported 17 percent less lead and lead compounds than was reported in 1999. Facilities in SIC 2819 (Industrial inorganic chemicals, nec) and SIC 3229 (Pressed and blown glass, nec) also reported less quantities of lead and lead compounds in 2003 than were reported in 1999.

Exhibit 4. 131. Industry Sector-Level Information for Lead and Lead Compounds (1999-2003)

Primary SIC Code	SIC Description	Number of Facilities for this SIC Code (2003)	1999	2000	2001	2002	2003	Change in Quantity (1999-2003)	Percent Change (1999-2003)	Percent of Total Quantity of this Priority Chemical (2003)
3341	Secondary nonferrous metals	86	7,258,985	10,113,688	9,409,708	11,625,705	12,469,392	5,210,407	71.8%	34.0%
3312	Blast furnaces and steel mills	80	8,927,197	9,408,641	7,766,085	6,917,785	7,410,626	-1,516,571	-17.0%	20.2%
9711	National security	124	71,221	160,317	2,177,396	2,466,010	2,642,108	2,570,887	3609.7%	7.2%
3321	Gray and ductile iron foundries	135	1,092,666	959,498	2,624,070	2,942,616	2,510,575	1,417,909	129.8%	6.8%
2819	Industrial inorganic chemicals, nec	78	2,644,958	4,553,382	2,626,332	2,376,285	2,285,192	-359,766	-13.6%	6.2%
3229	Pressed and blown glass, nec	34	1,946,047	1,715,864	1,538,505	1,282,440	1,161,252	-784,795	-40.3%	3.2%

Exhibit 4.132 shows how lead and lead compounds were managed by facilities in these six industry sectors in 2003. Most of the quantity reported by facilities in SICs 3341, 3312, 3321, and 3229 was sent to offsite land disposal. Almost 97 percent of the lead and lead compounds reported by SIC 9711 facilities was disposed onsite. The quantity reported by facilities in SIC 2819 was more or less equally disposed onsite and offsite. Considerable recycling of lead and lead compounds was reported by facilities in each of these industry sectors.

Exhibit 4. 132. Management of Lead and Lead Compounds in Industry Sectors (2003)

Primary SIC Code	SIC Description	Total Priority Chemical Quantity	Onsite Disposal	Offsite Disposal	Onsite Energy Recovery	Offsite Energy Recovery	Onsite Treatment	Offsite Treatment	Onsite Recycling	Offsite Recycling
3341	Secondary nonferrous metals	12,469,392	2,100,962	10,366,826	0	0	0	1,604	257,207,996	14,311,513
3312	Blast furnaces and steel mills	7,410,626	169,173	7,241,453	0	0	0	0	451,297	11,577,803
9711	National security	2,642,108	2,527,001	115,107	0	0	0	0	466,680	431,518
3321	Gray and ductile iron foundries	2,510,575	810,167	1,700,408	0	0	0	0	32,212	237,128
2819	Industrial inorganic chemicals, nec	2,285,192	1,230,643	1,054,541	0	0	8	0	39,586	875,736
3229	Pressed and blown glass, nec	1,161,252	1	1,161,251	0	0	0	0	55,175,907	404,726

Recycling. Exhibit 4.1333 provides some indication of the extent to which facilities in certain industry sectors have recycled at least 10,000 pounds of lead and lead compounds in 1999-2003, rather than manage it as a waste. For those year(s), the facility did not report a PC quantity, i.e., a quantity managed via land disposal, energy recovery, or treatment.

Exhibit 4. 133. Facilities reporting Recycling but not a Priority Chemical quantity (1999-2003)

			1999		2000		2001		2002		2003	
Number of Facilities	EPA Region	State	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle
SIC 2032 --Canned specialties												
1	6	Texas	0	160,000	0	0	0	0	0	0	0	0
SIC 2431 -- Millwork												
1	6	Iowa	0	0	0	0	0	2,632,000	0	0	0	0
SIC 2511 -- Wood Household Furniture												
1	4	Kentucky	0	20,000	0	7,380	0	8,950	0	5,840	0	6,500
SIC 2542 -- Partitions and fixtures, except wood												
1	5	Indiana	0	40,000	0	40,000	0	44,047	0	33,211	0	33,626
SIC 2631 -- Paperboard mills												
1	4	Florida	0	0	0	0	0	0	0	9,245	0	12,393
SIC 2816 --inorganic pigments												
1	4	Tennessee	53,000	0	54,000	0	71,000	0	68,000	0	73,000	0
1	5	Illinois	54,000	0	54,000	0	56,000	0	56,000	0	65,000	0
SIC 2819 --Industrial inorganic chemicals, nec												
1	4	North Carolina	0	86,910	0	88,400	0	0	0	92,700	0	0
1	4	Mississippi	0	46,000	0	54,000	0	22,566	0	32,200	0	0
2	5	Ohio	0	127,306	0	85,664	0	0	0	0	0	49,812
1	5	Indiana	0	59,720	0	16,244	0	71,610	0	40,640	0	86,320
1	5	Illinois	0	180,100	0	130,725	0	0	0	0	0	0
1	6	Texas	0	45,780	0	87,400	0	0	0	0	0	0
1	7	Nebraska	0	1,180,000	0	0	0	0	0	0	0	0
SIC 2869 -- Industrial organic chemicals, nec												
1	6	Texas	0	0	0	23,504	0	0	0	10,598	0	0
SIC 2891 -- Adhesives and sealants												
1	5	Ohio	71,000	7,100	86,000	8,600	4,850	4,850	6,000	6,000	0	0

			1999		2000		2001		2002		2003	
Number of Facilities	EPA Region	State	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle
SIC 3069 -- Fabricated rubber products, nec												
1	2	New Jersey	0	55,802	0	0	0	0	0	0	0	0
SIC 3089 -- Plastics products, nec												
1	2	New Jersey	0	0	0	0	0	11,250	0	0	1,500	0
1	2	New York	0	0	0	0	15,000	29,794	15,000	0	15,000	0
1	3	Pennsylvania	0	205,720	0	156,778	0	0	0	94,338	0	90,435
2	4	Mississippi	0	60,791	0	49,581	0	44,342	0	29,882	0	92,213
1	5	Ohio	0	11,384	0	17,039	0	9,635	0	11,564	0	7,472
1	5	Indiana	0	47,250	0	0	0	0	0	0	0	0
1	5	Wisconsin	654,240	0	560,240	102,249	373,650	299,682	448,380	116,272	0	145,853
SIC 3229 -- Pressed and blown glass, nec												
1	3	Pennsylvania	0	0	78,386	23,096	0	0	0	0	0	0
1	7	Missouri	0	34,020	0	51,615	0	31,357	0	0	0	0
SIC 3295 -- Minerals, ground or treated												
1	5	Ohio	0	71,851	0	39,655	0	100,739	0	0	0	0
SIC 3312 --Blast Furnaces and steel mills												
2	2	New Jersey	0	1,107,221	0	1,282,523	0	1,041,616	0	1,004,431	0	916,342
4	3	Pennsylvania	0	170,000	0	103,000	0	37,825	0	10,141	0	13,574
2	4	South Carolina	351	99,642	362	100,894	315	130,443	334	111,420	106,103	108,719
1	4	Georgia	0	0	0	0	48,789	250,503	39,180	184,904	51,268	226,630
2	4	Alabama	0	29,790	0	1,880	0	4,150	0	1,715	0	0
2	4	Tennessee	0	0	0	198,442	0	322,653	0	226,121	0	0
1	4	Mississippi	0	171,311	0	0	0	0	0	0	0	0
2	4	Kentucky	0	356,927	0	383,975	0	64,878	0	0	0	0
3	5	Ohio	0	554,265	0	0	105,000	353,268	0	0	0	0
2	5	Indiana	0	0	0	0	0	42,270	0	112,140	0	99,674
3	5	Illinois	0	0	0	389,020	39,881	709,186	39,428	417,415	0	2,286
1	6	Arkansas	0	66,595	0	135,851			0	121,000	0	119,920
2	6	Oklahoma	0	242,600	0	387,544	0	213,338	0	205,248	0	262,928
4	6	Texas	0	893,747	0	1,203,164	0	141,732	0	153,590	0	0
1	7	Iowa	0	150,515	297	140,179	209	96,800	209	120,175	0	0
1	7	Missouri	0	210,000	0	170,000	0	28,897	0	0	0	0
1	10	Washington	0	305,201	130	416,928	661	382,258	538	311,429	988	555,080
SIC 3315 --Steel wire and related products												
2	3	Pennsylvania	0	247,369	0	59,036	0	299,022	0	166,589	0	750
1	4	North Carolina	0	0	0	0	0	0	0	13,049	0	11,984
1	7	Missouri	0	152,000	0	160,000	0	211,600	0	219,650	0	187,554
SIC 3316 --Cold finishing of steel shapes												
1	9	California	0	0	0	49,535	0	0	0	0	0	0
SIC 3321 -- Gray and ductile iron foundries												
1	2	New Jersey	0	0	0	0	0	0	0	3,215	0	214,649
SIC 3341 -- Secondary nonferrous metals												
3	2	New Jersey	0	36,000	17,585	23,606	31,265	567,291	30,486	338,471	29,998	407,723
4	3	Pennsylvania	0	6,800	0	3,500	0	16,015	0	30,087	8,674	5,363
7	5	Illinois	75,563	62,532	48,882	149,482	54,088	127,414	258,140	250,613	194,778	160,413
1	6	Oklahoma	0	0	127,980	163,047	8,222	66,576	0	187,496	0	92,936
1	6	Texas	610,000	11,000	0	0	0	0	0	0	0	0
1	7	Iowa	0	0	0	0	7,901	81	13,562	960	0	0
3	9	California	855,000	248,575	850,000	334,466	850,000	127,999	470,000	52,661	640,000	146,245
SIC 3351 -- Copper rolling and drawing												
1	3	Pennsylvania	0	100,000	0	100,000	0	100,000	0	100,000	0	100,000

			1999		2000		2001		2002		2003	
Number of Facilities	EPA Region	State	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle
1	5	Ohio	0	12,730	0	0	0	0	0	0	0	0
1	6	Texas	0	31,905	0	0	0	14,141	0	23,203	0	33,423
SIC 3353 -- Aluminum sheet, plate, and foil												
1	4	Alabama	0	0	0	0	0	18,220	0	0	0	0
1	7	Missouri	119,284	55,465	0	0	238	32	0	0	0	0
SIC 3354 -- Aluminum extruded products												
1	1	Connecticut	0	0	0	0	0	0	0	5,314,260	0	5,618,581
SIC 3356 -- Nonferrous rolling and drawing, nec												
1	3	Pennsylvania	40,000	4,000	40,000	4,390	0	0	40,000	1,354	40,000	12,700
1	5	Ohio	0	190,000	0	190,000	0	190,000	0	190,000	0	190,000
2	5	Wisconsin	0	129,500	0	254,748	0	136,288	0	227,948	0	241,869
3	5	Illinois	34,300	70,786	0	45,109	22,000	4,734	20,000	2,280	0	0
2	6	Texas	0	68,720	0	184,533	0	145,600	0	75,935	0	11,645
SIC 3357 -- Nonferrous wire drawing and insulating												
11	1	Massachusetts	0	8,113	0	51,756	0	44,268	0	32,924	0	29,974
2	1	Connecticut	0	12,000	0	21,367	0	11,354	0	8,071	0	9,320
1	2	New York	0	26,281	0	28,641	0	27,429	0	14,889	0	15,641
1	3	Pennsylvania	0	0	0	0	21,523	0	0	0	0	0
3	4	North Carolina	0	15,000	0	9,911	0	7,187	0	7,671	24,244	2,650
2	4	Alabama	0	17,647	0	19,520	0	14,637	0	0	0	0
3	5	Indiana	0	1,082,338	0	1,245,582	0	807,542	0	138,805	0	288,214
1	5	Michigan	0	19,049	0	0	0	0	0	0	0	0
6	6	Texas	0	143,048	0	95,084	370	52,536	360	12,712	400	65,757
2	7	Kansas	0	99,660	0	0	0	0	0	0	0	40,536
1	7	Nebraska	0	25,500	0	41,291	0	16,475	0	11,389	0	1,583
2	9	Arizona	0	3,700	0	6,857	0	7,406	0	7,755	0	20,624
3	9	California	0	40,291	0	42,548	0	40,080	0	25,105	0	10,990
SIC 3363 --Aluminum die castings												
2	4	Kentucky	0	0	250,000	34,000	90,000	24,000	17,719	26,984	12,625	1,043
2	5	Indiana	0	0	0	0	0	450	25,600	6,594	11,385	2,364
2	5	Michigan	0	0	0	0	18,900	12,892	23,200	10,703	12,027	3,500
2	5	Wisconsin	0	0	0	0	15,000	5,990	0	3,030	7,350	4,819
SIC 3364 -- Nonferrous die castings, except aluminum												
1	2	New York	0	13,495	0	11,854	0	4,573	0	8,520	0	1,245
1	5	Minnesota	0	1,600,000	0	1,467,000	0	1,431,486	0	2,961,908	0	1,951,312
1	7	Iowa	0	0	0	0	0	0	0	13,689	0	1,418
SIC 3365 -- Aluminum foundries												
1	5	Michigan	0	10,124	0	8,313	0	5,401	0	4,593	0	4,468
1	5	Illinois	0	13,522	0	0	6,500	3,007	5,100	1,791	3,700	2,294
SIC 3366 -- Copper foundries												
1	3	Virginia	30,000	1,446	24,633	2,052	20,967	1,455	0	0	0	0
1	4	North Carolina	0	262,281	0	0	0	0	0	429,598	0	118,359
1	5	Ohio	0	75,937	0	91,182	0	17,619	0	81,102	0	67,160
2	5	Wisconsin	36,197	52,510	34,387	38,957	34,903	17,554	33,158	1,210,920	31,500	42,453
1	9	Arizona	19,813	2,800	12,935	8,551	9,409	6,273	8,324	2,976	3,241	2,950
2	9	California	0	10,726	0	12,458	3,100	20,392	3,200	21,110	6,134	13,315
SIC 3369 -- Nonferrous foundries, nec												
1	1	Rhode Island	425,079	0	418,898	0	338,860	0	342,489	0	317,030	0
1	4	Alabama	0	24,244	0	0	0	18,556	0	22,975	0	34,201
3	4	Tennessee	0	30,024	0	9,579	0	0	0	12,700	0	11,362
5	9	California	0	17,038	0	4,436	0	10,394	0	16,520	0	17,167

			1999		2000		2001		2002		2003	
Number of Facilities	EPA Region	State	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle
SIC 3399 -- Primary metal products, nec												
1	4	South Carolina	0	78,520	0	116,441	0	41,500	0	0	0	0
1	4	Georgia	0	0	0	0	0	0	0	420,335	0	192,240
1	5	Ohio	0	69,752	0	95,663	0	21,490	0	42,660	0	38,435
1	6	Texas	0	0	0	0	0	0	279,593	66,684	215,325	65,552
1	7	Kansas	0	173,040	0	18,668	0	33,405	0	18,848	0	41,915
1	9	Arizona	0	0	0	0	0	0	0	58,714	0	0
SIC 3432 -- Plumbings fixture fittings and trim												
1	6	Texas	1,138,394	125,452	1,106,286	76,783	1,183,267	189,877	1,729,135	171,087	1,082,320	171,102
SIC 3441 -- Fabricated structural metal												
1	4	Georgia	0	0	0	0	0	0	0	0	0	24,200
3	5	Ohio	0	25,329	0	0	0	0	0	0	0	0
1	5	Indiana	0	0	0	35,020	0	0	0	0	0	2,115
SIC 3443 -- Fabricated plate work (boiler shops)												
1	1	Rhode Island	0	0	0	18,728	0	16,225	0	19,551	0	16,472
1	3	Pennsylvania	0	0	0	13,606	0	0	0	0	0	0
SIC 3444 -- Sheet metal work												
1	1	Massachusetts	0	17,000	0	38,370	0	31,590	0	22,520	0	8,947
1	1	Connecticut	0	0	0	0	0	0	0	0	0	46,020
1	3	West Virginia	0	18,000	0	23,281	0	0	0	0	0	0
1	7	Iowa	0	0	0	9,670	0	10,634	0	716	0	269
2	7	Kansas	0	12,500	0	17,522	0	0	0	19,200	0	20,160
SIC 3449 -- Miscellaneous metal work												
1	6	Arkansas	0	15,071	0	0	0	13,050	0	0	0	0
SIC 3451 -- Screw machine products												
4	1	Connecticut	0	98,258	0	113,586	0	92,118	0	27,441	0	119,239
1	4	Alabama	0	19,008	0	19,008	0	0	0	0	0	0
1	4	Tennessee	0	0	0	0	0	23,737	0	18,554	0	19,645
2	5	Ohio	0	30,947	0	36,231	0	38,633	0	0	0	43,980
3	5	Wisconsin	0	177,600	0	162,591	0	153,637	0	147,136	0	143,625
1	5	Minnesota	0	0	0	0	0	15,561	0	9,821	0	8,096
3	5	Nebraska	0	0	0	0	0	9,000	0	9,578	0	10,234
SIC 3452 -- Bolts, nuts, rivets, and washers												
1	2	New York	0	24,558	0	28,831	0	18,920	0	14,701	0	0
1	5	Illinois	0	154,000	0	143,000	0	130,000	0	140,000	0	130,000
SIC 3462 -- Iron and steel forgings												
1	6	Texas	0	0	0	0	0	0	0	0	0	22,578
SIC 3463 -- Nonferrous forgings												
1	5	Illinois	0	0	0	13,600	0	0	0	0	0	0
SIC 3465 -- Automotive stampings												
1	5	Michigan	0	22,976	0	23,419	0	189	0	0	0	0
SIC 3469 -- Metal stampings, nec												
1	1	Connecticut	0	0	0	0	0	76,315	0	112,211	0	99,944
1	5	Wisconsin	0	10,000			0	12,635	0	212	0	54
1	7	Missouri	0	0	0	0	0	0	0	0	0	12,116
SIC 3471 --Plating and polishing												
1	6	Texas	0	50,800	0	0	0	0	0	0	0	0
1	9	California	0	73,680	0	61,452	0	25,478	0	35,982	0	31,772
SIC 3479 --Metal coating and allied services												
1	4	Alabama	33,048	271,775	91,575	397,577	98,536	388,666	106,672	400,760	0	0
1	4	Tennessee	0	10,096	0	8,750	0	10,492	0	10,205	0	212

			1999		2000		2001		2002		2003	
Number of Facilities	EPA Region	State	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle
2	5	Ohio	0	18,568	0	18,550	0	23,688	0	29,982	0	20,996
1	5	Michigan	0	0	0	0	0	98,580	0	28,136	0	116,982
2	6	Texas	0	44,513	0	33,257	0	23,446	0	34,629	0	15,720
1	9	Arizona	0	7,173	0	12,171	0	0	0	0	0	0
SIC 3482-- Small arms ammunition												
1	7	Nebraska	0	28,204			0	39,942	0	47,722	0	66,770
1	10	Oregon	0	314,200	0	433,400	0	421,400	0	299,340	0	163,938
SIC 3484-- Small arms												
3	2	Connecticut	0	0	0	20,500	0	43,145	0	44,280	0	57,784
1	3	Maryland	0	0	0	0	0	0	0	0	0	21,047
2	6	Texas	0	0	0	0	0	0	0	0	0	32,039
SIC 3491-- Industrial valves												
1	6	Texas	0	0	0	6,313	0	6,121	0	7,942	0	10,738
1	9	California	0	78,983	0	85,544	0	68,730	0	60,419	0	58,458
SIC 3492-- Fluid power valves and hose fittings												
1	5	Ohio	0	0	0	0	0	10,877	0	15,344	0	14,454
1	5	Michigan	0	74,271	0	40,701	0	12,198	0	13,057	0	10,164
SIC 3494-- Valves and pipe fittings, nec												
1	1	New Hampshire	0	63,070	0	54,014	0	0	0	0	0	0
1	4	North Carolina	0	57,733	0	0	0	24,500	0	51,646	0	11,045
1	4	South Carolina	0	157,702	0	166,038	0	178,222	0	210,013	0	174,544
1	4	Alabama	0	19,292	0	0	0	0	0	29,799	0	452
1	5	Illinois	0	130,000	0	0	0	0	0	0	0	0
1	9	California	0	69,683	0	83,620	0	87,801	0	87,801	0	94,828
SIC 3496-- Miscellaneous fabricated wire products												
1	1	Massachusetts	0	11,127	0	11,867	0	7,917	0	8,240	0	5,536
1	3	Pennsylvania	0	0	0	0	0	113,375	0	0	0	0
1	5	Indiana	0	0	0	0	0	21,821	0	29,633	0	0
1	5	Illinois	0	0	0	0	0	0	0	0	0	41,263
SIC 3497-- Metal foil and leaf												
1	2	New York	0	0	0	0	0	0	0	0	0	206,509
SIC 3498--Fabricayed pipe and fittings												
1	3	Pennsylvania	0	0	0	0	0	15,757	0	19,978	0	28,885
SIC 3499--Fabricated metal products, nec												
1	3	West Virginia	0	63,656	0	0	0	80	0	0	0	0
1	4	North Carolina	0	0	0	39,900	0	37,600	0	0	0	0
1	4	South Carolina	0	40,967	0	40,526	0	45,153	0	40,194	0	64,856
1	4	Florida	0	0	0	0	0	64,581	0	96,812	0	82,226
1	5	Ohio	0	160,000	0	160,000	0	160,000	0	160,000	0	160,000
1	5	Indiana	0	0	0	0	0	15,000	0	0	0	0
1	5	Michigan	0	30,928	0	0	0	23,914	0	0	0	0
1	5	Illinois	0	49,748	0	54,357	7,048	49,663	11,150	28,891	7,557	68,441
1	7	Iowa	0	0	0	16,225	0	21,137	0	21,515	0	21,088
1	9	Nevada	0	8,100	0	12,200	0	5,200	0	5,616	0	0
1	9	California	0	94,404	0	54,702	0	59,954	0	80,254	0	79,805
SIC 3523--Farm machinery and equipment												
1	5	Illinois	0	11,161	0	0	0	0	0	0	0	0
1	6	Louisiana	0	0	0	0	0	38,017	0	0	0	0
SIC 3531--Construction machinery												
1	7	Iowa	0	160,703	0	167,447					0	9,877
SIC 3533--Oil and gas field machinery												

			1999		2000		2001		2002		2003	
Number of Facilities	EPA Region	State	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle
2	6	Oklahoma	0	10,307	0	287,565	0	41,931	0	16,186	0	14,712
SIC 3544--Special dies, jigs, tools, and fixture												
1	5	Michigan	120,366	104,029	120,500	134,561	168,400	113,169	0	50,343	0	27,987
1	5	Wisconsin	0	96,000	0	65,000	0	44,000	0	85,600	0	52,888
SIC 3559-- Special industry machinery, nec												
1	4	Tennessee	0	0	0	0	0	588,835	0	417,015	0	391,746
1	5	Michigan	5,900	14,484	10,000	75,234	24,700	71,776	0	18,195	0	41,980
1	9	Nevada	0	0	0	0	0	455,551	0	382,551	0	455,929
SIC 3561-- Pumps and pumping equipment												
1	5	Illinois	0	0	0	13,574	0	13,710	0	4,760	0	11,532
SIC 3562-- Ball and roller bearings												
1	5	Indiana	0	116,280	0	103,106	0	103,683	0	103,683	0	46,374
SIC 3568-- Power transmission equipment												
1	4	Tennessee	26,185	4,961	29,035	5,395	30,050	7,830	15,876	2,360	20,652	2,672
1	5	Ohio	0	0	0	0	0	8,367	0	11,342	0	9,338
SIC 3569-- General industrial machinery, nec												
2	4	North Carolina	100,000	0	100,000	36,093	60,000	20,000	0	39,853	0	0
1	6	Texas	0	7,600	0	10,000	0	0	0	0	0	0
SIC 3585-- Refrigeration and heating equipment												
1	4	Alabama	0	0	0	0	0	0	0	0	0	280,000
1	5	Illinois	0	15,103	0	13,772	0	11,472	0	11,508	0	13,786
1	6	Oklahoma	0	6,943	0	38,461	0	44,278	0	26,303	0	14,998
SIC 3599-- Industrial machinery, nec												
1	5	Ohio	0	0	0	0	0	10,195	0	0	0	0
SIC 3613-- Switchgear and switchboard apparatus												
1	6	Oklahoma	0	0	0	16,776	0	10,400	0	4,994	0	5,632
SIC 3641-- Electric Lamps												
1	1	Connecticut	0	0	0	29,043	0	25,119	0	13,755	0	22,992
1	4	Kentucky	0	0	0	304,157	0	212,149	0	243,106	0	0
1	5	Illinois	0	22,000	0	9,240	0	23,913	0	20,255	0	27,084
1	7	Kansas	0	0	0	59,635	0	72,453	0	78,985	0	65,637
SIC 3643-- Current carrying wiring devices												
1	2	Puerto Rico	0	0	0	0	0	10,440	0	11,566	0	22,168
1	3	Pennsylvania	0	0	0	0	72,266	0	0	0	0	0
1	5	Ohio	0	62,491	0	43,195	0	20,847	0	0	0	0
SIC 3645 -- Residential Lighting fixtures												
1	5	Ohio	0	0	0	0	0	0	0	29,000	0	1,069
SIC 3651-- Household audi and video equipment												
1	4	Tennessee	0	23,779	0	11,964	0	4,050	0	14,625	0	5,137
1	5	Indiana	0	10,045	0	10,007	0	6,300	0	6,210	0	5,890
1	9	California	0	27,840	0	16,120	0	19,200	0	17,080	0	26,359
SIC 3661-- Telephone and telegraph apparatus												
1	1	Massachusetts	0	33,000	0	13,000	0	12,800	0	0	0	0
1	5	Illinois	0	133,285	0	147,502	0	19,073	0	0	0	0
1	6	Texas	0	23,008	0	0	0	0	0	0	0	21,525
1	9	California	0	30,026	0	17,856	0	4,520	0	0	0	0
SIC 3663-- Radio and TV communication equipment												
1	4	Georgia	0	30,000	0	33,484	0	49,885	0	24,684	0	20,182
1	6	Texas	0	0	0	0	0	13,000	0	0	0	0
SIC 3669-- Communications equipment												
1	2	New Jersey	0	0	0	0	0	0	0	28,679	0	26,400

			1999		2000		2001		2002		2003	
Number of Facilities	EPA Region	State	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle
1	4	Florida	0	17,980	0	0	0	9,399	0	5,902	0	8,238
1	5	Illinois	0	58,555	0	70,027	0	93,563	0	105,397	0	107,177
SIC 3672-- Printed circuit boards												
1	1	Massachusetts	0	0	0	0	0	11,300	0	1,000	0	1,000
1	2	Puerto Rico	0	0	0	0	0	16,000	0	6,000	0	19,800
1	4	Georgia	0	0	0	0	0	0	0	0	0	50,194
1	5	Indiana	0	0	0	0	0	0	0	0	0	15,301
1	5	Michigan	0	0	0	0	0	22,818	0	16,328	0	0
1	5	Illinois	0	26,000	0	29,000	0	0	0	0	0	11,604
1	6	Texas	0	325,262	0	0	0	24,664	0	0	0	0
1	9	California	0	0	0	0	0	54,955	0	5,358	0	27,294
1	10	Washington	0	0	0	28,400	0	19,976	0	0	0	0
SIC 3676-- Electronic Resistors												
1	8	Utah	0	17,792	0	25,300	0	5,122	0	250	0	0
SIC 3676-- Electronic Components, nec												
1	2	Puerto Rico	0	0	0	0	0	32,953	0	10,652	0	10,123
1	3	Pennsylvania	0	223,170	0	311,804	0	185,710	0	215,365	0	73,200
1	4	Alabama	0	0	0	0	0	14,000	0	0	0	0
1	4	Tennessee	0	0	0	0	0	15,217	0	6,448	0	25,838
1	5	Ohio	0	0	0	0	0	8,428	0	26,142	0	1,632
1	6	Texas	0	33,000	0	40,000	0	44,978	0	41,866	0	0
1	8	Colorado	0	0	0	0	0	12,094	30,051	30,852	35,073	23,021
1	9	California	0	222,562	0	0	0	139,536	0	53,972	0	4,933
1	10	Oregon	0	0	0	0	0	14,429	0	0	0	0
SIC 3691-- Storage Batteries												
1	2	New Jersey	0	403,666	0	674,673	0	672,111	0	0	0	0
1	3	Pennsylvania	0	5,723,661	0	6,095,292	0	842,362	1,843,200	0	0	0
1	4	Georgia	0	1,297,229	0	0	0	0	0	0	0	0
1	4	Kentucky	0	0	0	0	1,296,234	1,488,247	837,553	1,102,983	837,553	837,500
1	5	Indiana	0	0	0	0	0	533,039	0	0	0	0
1	5	Wisconsin	0	176,275	0	388,753	0	658,667	0	1,459,611	0	1,029,192
1	5	Minnesota	0	0	0	0	0	0	0	571,425	0	0
1	5	Illinois	81,252	839,852	191,480	923,462	0	0	126,994	943,882	0	751,495
1	6	Texas	0	75,830	0	0	0	0	0	0	0	204,278
1	7	Iowa	0	0	0	0	0	0	0	0	0	44,499
1	7	Missouri	0	1,400,000	0	710,000	0	575,145	0	147,000	0	0
1	8	Colorado	0	0	0	1,477,354	0	1,893,822	0	1,900,000	0	0
1	9	California	0	57,765	0	97,236	0	38,497	0	22,208	0	0
SIC 3699-- Electrical equipment and supplies												
1	5	Illinois	0	40,600	0	49,000	0	50,945	0	79,408	0	77,375
SIC 3713-- Truck and bus bodies												
1	4	Alabama	5,375,000	430,000	5,267,500	421,400	0	0	9,225,000	1,107,000	8,850,000	1,031,000
SIC 3714-- Motor vehicle parts and accessories												
1	2	New York	0	0	0	34,015	0	12,825	0	17,372	0	27,010
1	3	Pennsylvania	0	24,800	0	0	0	0	0	0	0	0
1	3	Delaware	0	19,070	0	120,000	0	0	0	208,000	5,000	18,775
2	4	North Carolina	0	0	0	0	0	11,052	0	77,599	0	1,407,890
1	4	South Carolina	0	0	0	0	0	13,721	0	17,319	0	11,849
1	4	Kentucky	0	0	0	0	0	27,411	0	23,000	0	2,047
2	5	Ohio	0	41,360	0	43,001	0	37,634	0	22,627	0	0
2	5	Indiana	370	18,949	385	18,693	0	17,152	0	25,808	0	92

			1999		2000		2001		2002		2003	
Number of Facilities	EPA Region	State	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle	Onsite Recycle	Offsite Recycle
1	5	Wisconsin	0	0	0	0	0	11,432	0	11,349	0	13,673
1	5	Illinois	0	15,450	0	16,580	0	18,384	0	26,376	0	21,923
1	6	Arkansas	0	10,254	0	10,158	0	6,721	0	12,659	0	16,263
2	9	Nevada	1,358,000	198,600	1,485,800	219,259	0	0	0	0	0	0
SIC 3728-- Aircraft parts and equipment, nec												
1	6	Texas	0	0	0	0	0	2,482	0	1,112	0	25,925
1	7	Kansas	0	0	0	0	0	0	22,479	782	114,839	0
1	9	California	0	26,827	1	4,452	319,000	24,025	319,000	19,300	319,000	18,700
SIC 3799-- Transportation equipment												
1	4	Georgia	0	17,091	0	21,741	0	0	0	0	0	0
SIC 3812-- Search and navigation equipment												
1	9	California	0	29,000	0	0	0	21,300	0	11,235	0	9,884
SIC 3823-- Process control instruments												
1	6	Texas	0	0	0	0	0	63,000	0	68,900	0	68,900
SIC 3824-- Fluid meterrs and counting devices												
1	3	Pennsylvania	0	73,000	0	5,200	0	0	0	0	0	0
SIC 3829-- Measuring and controlling devices, nec												
1	3	Pennsylvania	0	8,863	0	11,524	0	12,740	0	9,695	0	5,819
SIC 3842-- Surgical appliances and supplies												
1	4	Georgia	0	7,715	0	14,005	0	9,548	0	12,150	0	22,180
SIC 3843-- Dental equipment and supplies												
1	5	Illinois	0	0	0	0	0	48,795	0	59,531	0	50,417
SIC 3844-- X-ray apparatus and tubes												
1	5	Illinois	0	31,130	0	13,370	0	13,306	0	20,745	0	13,726
SIC 3845-- Electromedical equipment												
1	5	Illinois	0	26,335	0	19,090	0	19,340	0	18,430	0	17,620
SIC 3851-- Ophthalmic Goods												
1	5	Minnesota	0	0	0	0	0	8,284	0	10,154	0	0
1	7	Missouri	0	0	0	0	12,075	9,424	9,000	56,000	0	0
SIC 3861-- Photographic equipment and supplies												
1	3	Pennsylvania	60,000	0	60,000	0	60,000	0	0	0	0	0
SIC 5171-- Petroleum bulk stations and terminals												
1	4	Georgia	0	0	0	0	0	0	121,666	0	127,737	0
SIC 8731-- Commercial physical research												
1	4	Tennessee	0	0	0	0	117,000	46,855	0	0	0	0
SIC 9199-- General government												
1	3	Maryland	0	47,800	0	0	0	54,354	0	40,579	0	13,048
SIC 9711-- National Security												
1	4	Florida	0	0	0	0	0	12,100	0	0	0	0